

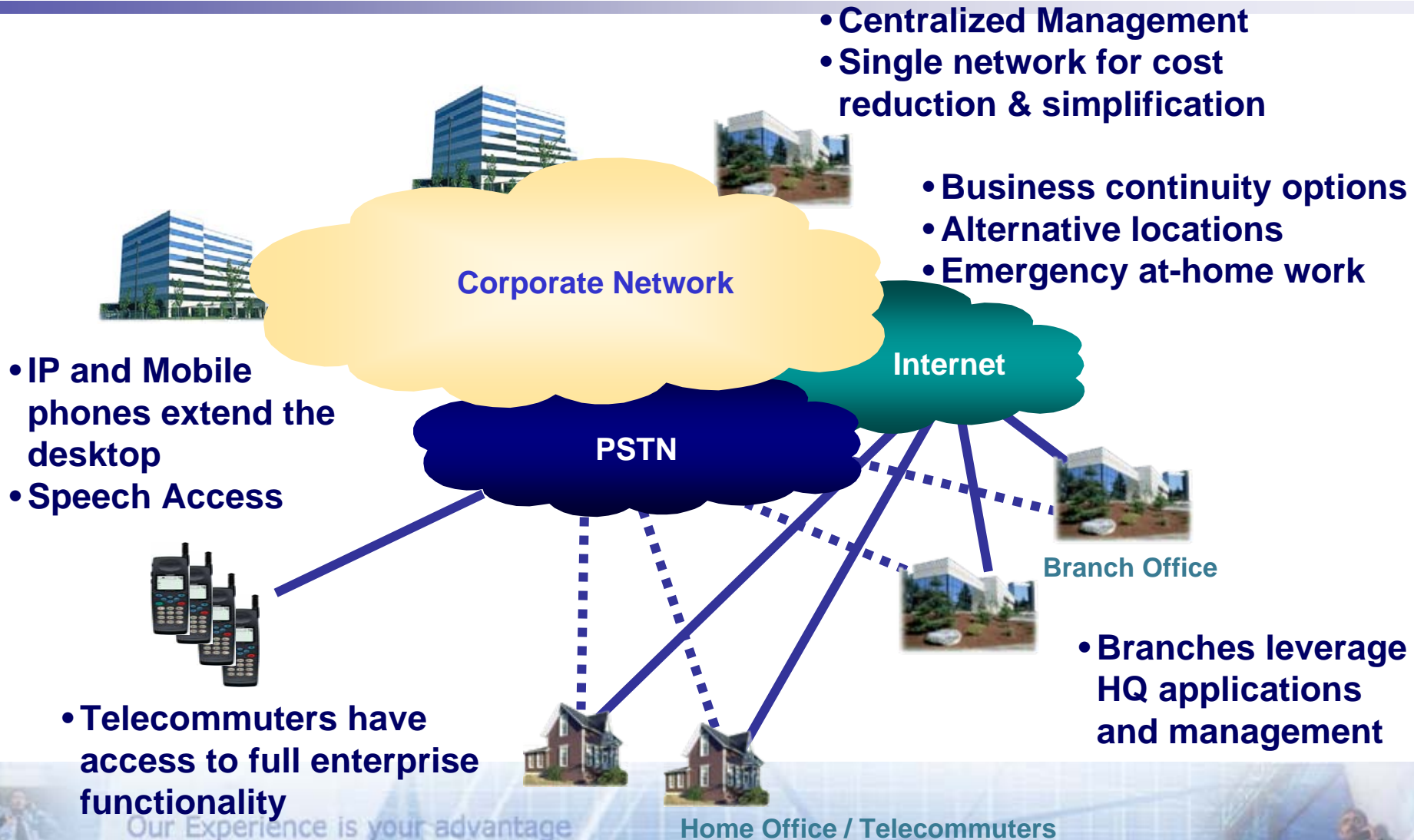
# Scalable Remote Office Options Using ACM to Achieve your Strategic Goals

David Lover – Chief Strategy and Technology Officer  
Cross Telecom

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# Virtualizing the Enterprise

## Extending your Investment



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# Communication Manager

## Categories for Comparison



- Station Quantity
- Station Flexibility
- Local Presence
- Survivability

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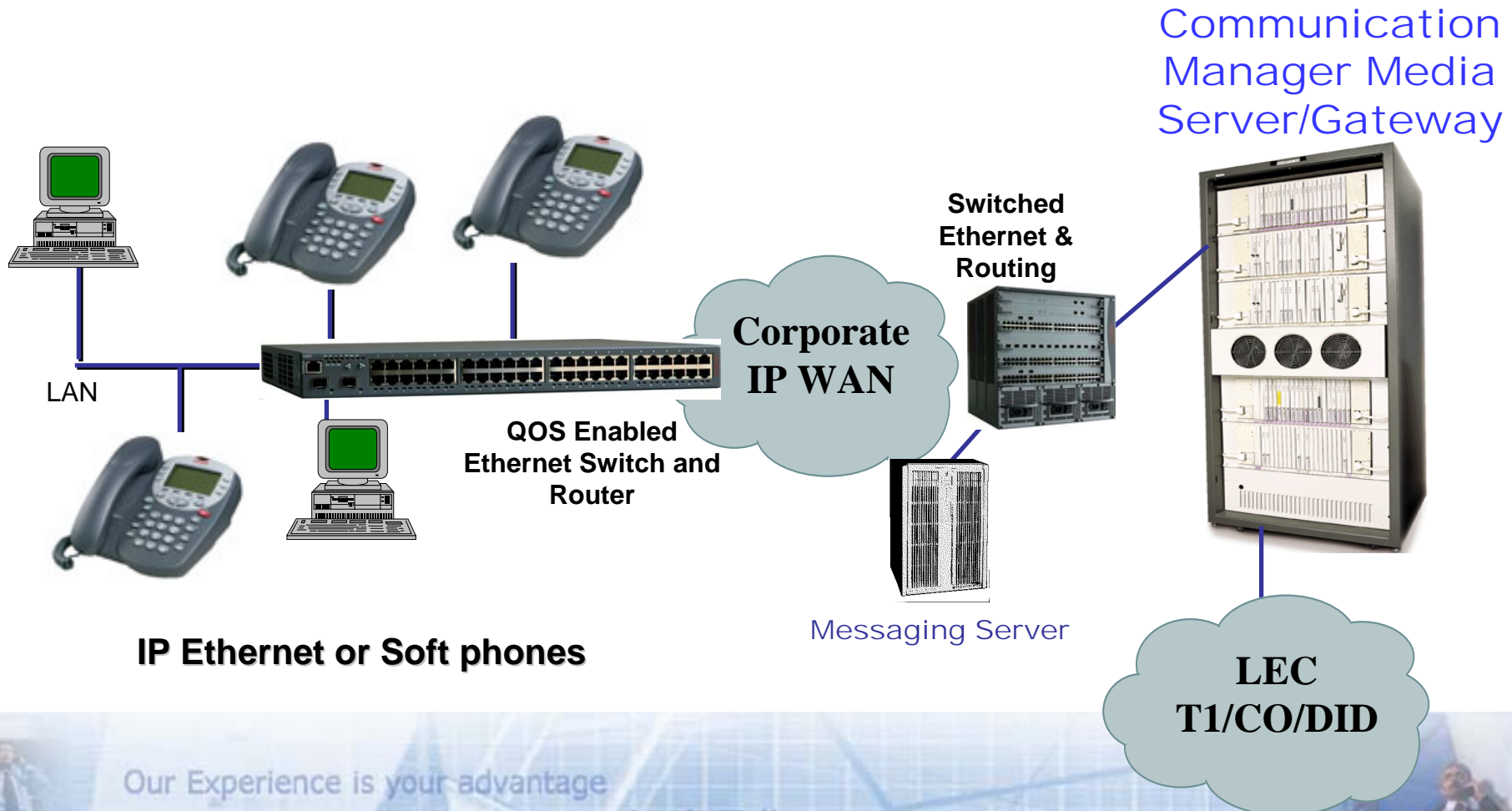
# Communication Manager

## Remote Site Options – Just IP Phones

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### Remote/Satellite Office

### Main/Regional Office



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# Communication Manager

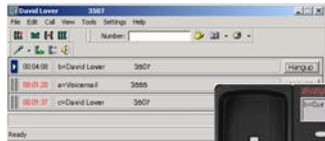
## Remote Site Options – Just IP Phones

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*Home Office, Hotel, etc*

*Main/Regional Office*

Communication  
Manager Media  
Server/Gateway



IP Softphone running on PC



Dual-Connect if data  
network can't deliver  
acceptable voice quality

Cable/DSL  
Modem/Router

VPN  
(H.323  
compliant)

Switched  
Ethernet &  
Routing



Messaging Server



LEC

LEC  
T1/CO/DID

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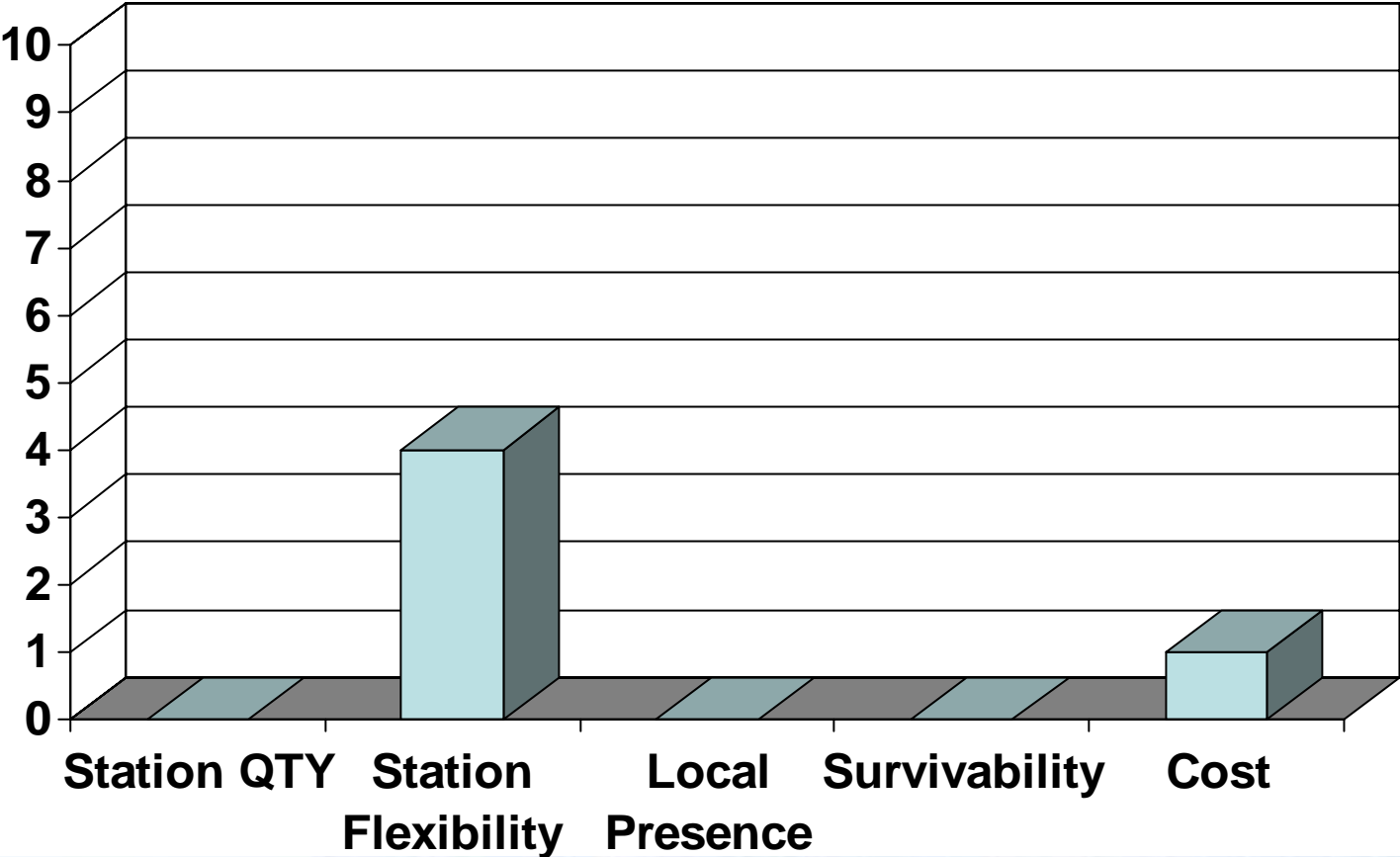


# Communication Manager

## Remote Site Options – Just IP Phones



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# Where does it fit?

## Remote Site Options – Just IP Phones



- **Advantages**

- Least expensive
- Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- Single point of Management/Administration
- One CM system to upgrade
- Share LD trunks from main site.

- **Disadvantages**

- No Survivability
- No Local Presence
- Supports ONLY IP Hard/Soft Phones

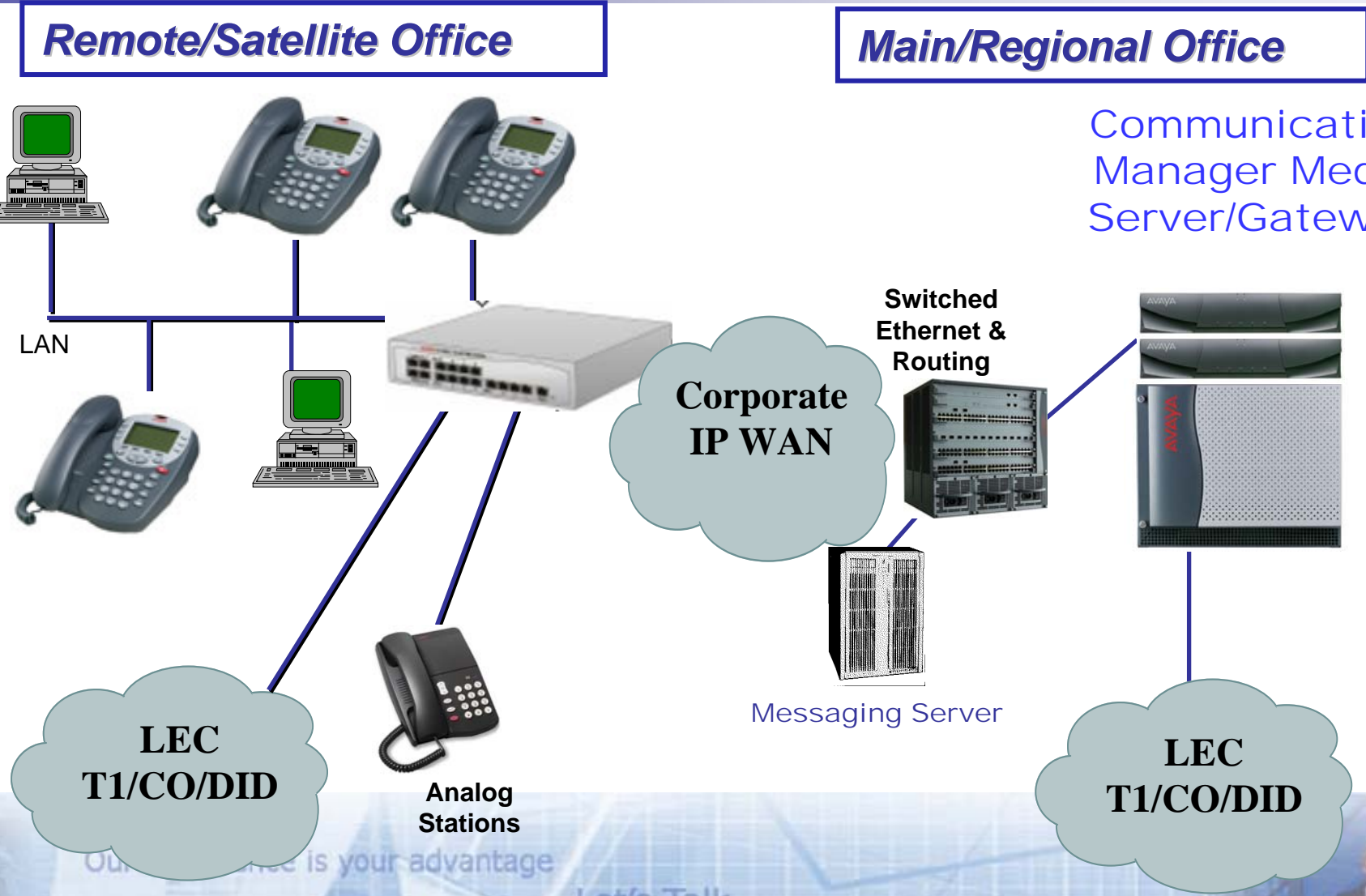
- **Requirements**

- R9.5 or higher, CM 2.1 recommended
- IP Enabled (MedPro's, C-LAN's, IP RTU, etc.)
- LAN/WAN that meets Connectivity, QOS and Bandwidth requirements
- IP Hard/Soft Phones

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## Communication Manager Remote Site Options – G150 (H.323 Gateway)



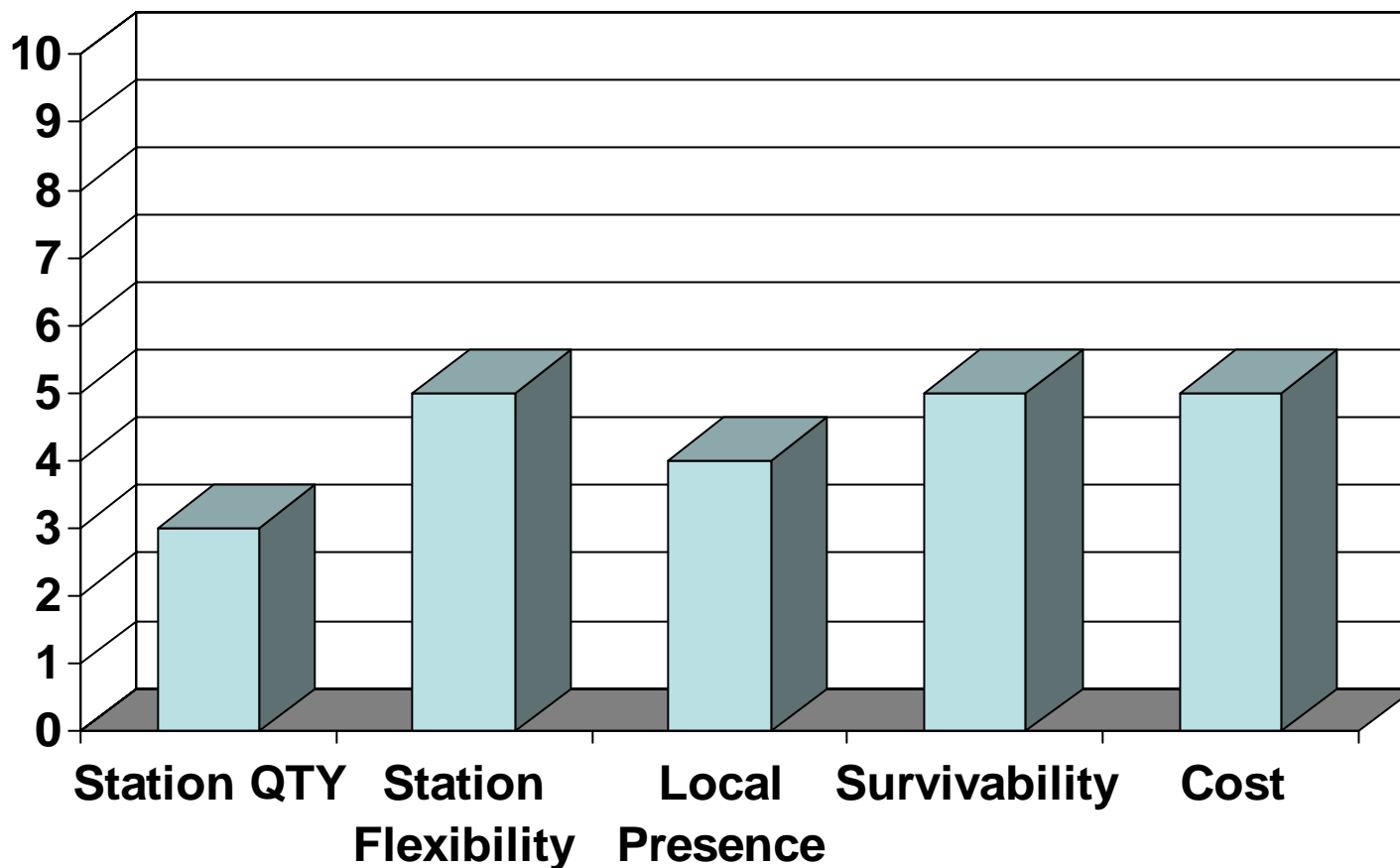


# Communications Manager

## Remote Site Options – G150 (H.323 Gateway)

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# Where does it fit?

## Remote Site Options – G150 (H.323 Gateway)

- **Advantages**

- Still very inexpensive
- Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- One CM system to upgrade
- Share LD trunks from main site along with limited local CO's
- Supports limited analog endpoints (CO trunks or loop start stations).
- Basic Survivability

- **Disadvantages**

- H.323 Gateway – Multiple Points of Administration. NOT ACM feature set in survivable mode
- Supports ONLY IP Hard/Soft Phones and Analog phones (Future support for digital)
- No Call Center support

- **Requirements**

- CM 2.2 at main site
- IP Enabled (MedPro's, C-LAN's, IP trunk and station RTU, etc.)
- G150 (2 different models)
- LAN/WAN that meets Connectivity, QOS and Bandwidth requirements
- IP Hard/Soft Phones
- Multi-Location Software (MLS) or ARS Partitioning (limits qty)

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## Remote Site Options – G250 with LSP

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### Main/Regional Office

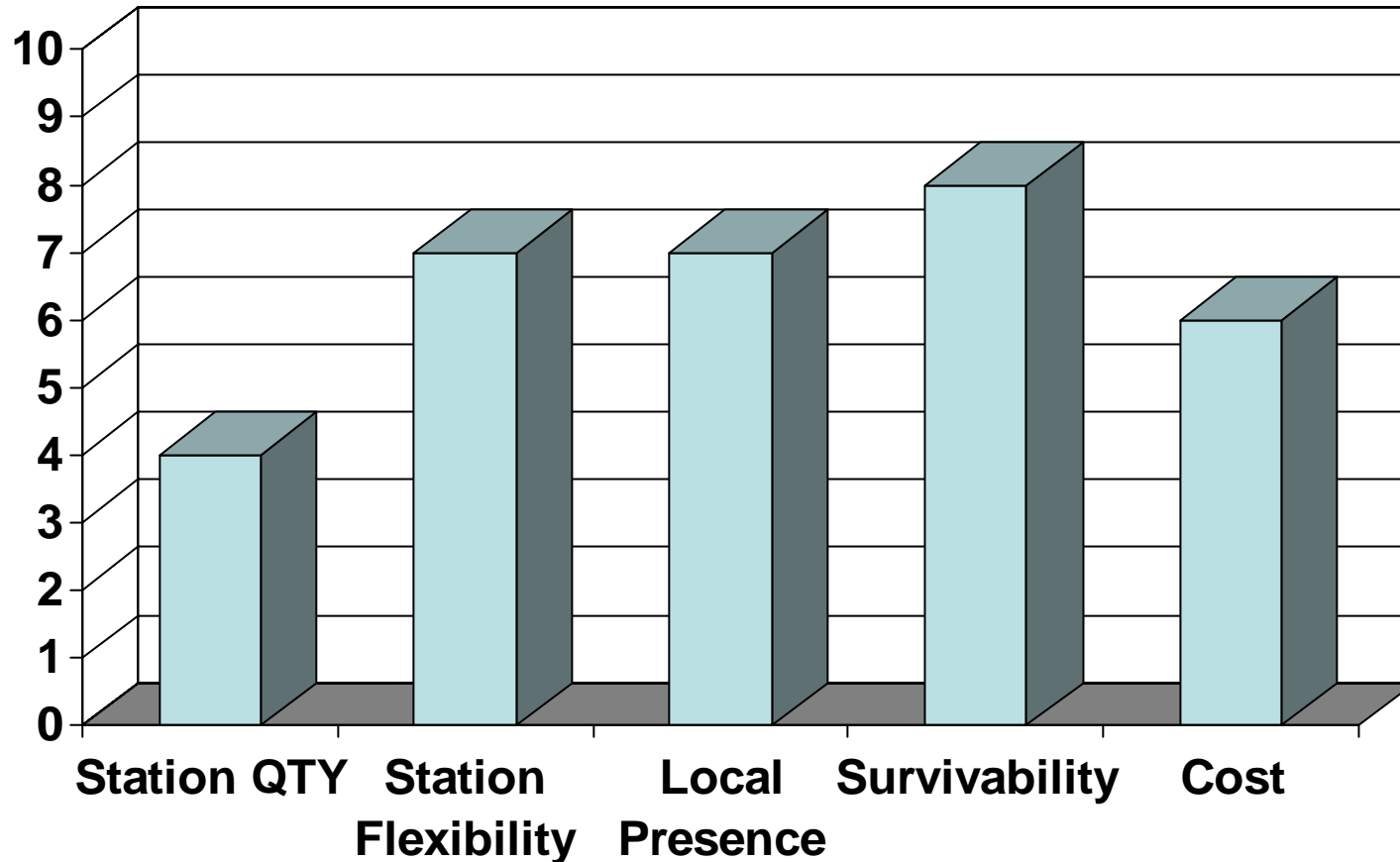


# Communication Manager

## Remote Site Options – G250 with LSP



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# Where does it fit?

## Remote Site Options – G250 with LSP

- **Advantages**

- Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- One CM system to upgrade
- VERY flexible trunking options
- Built in PoE for IP Stations (8)
- Local Survivable Processor has full ACM support

- **Disadvantages**

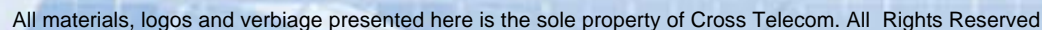
- Very limited station qty's. Max of 8 IP Stations.
- Fixed configuration, Not Stackable
- There are a lot of “real life” issues to think about for survivability

- **Requirements**

- S8300/S8500/S8700 CM3.0 or higher at main site ((Enterprise Software recommended)
- IP Enabled (MedPro's, C-LAN's, IP trunk and station RTU, etc.)
- G250 at remote site with Media Modules to support desired endpoints
- LAN/WAN that meets Connectivity, QOS and Bandwidth requirements
- Desired endpoints
- Multi Location Software or ARS Partitioning (limits qty)



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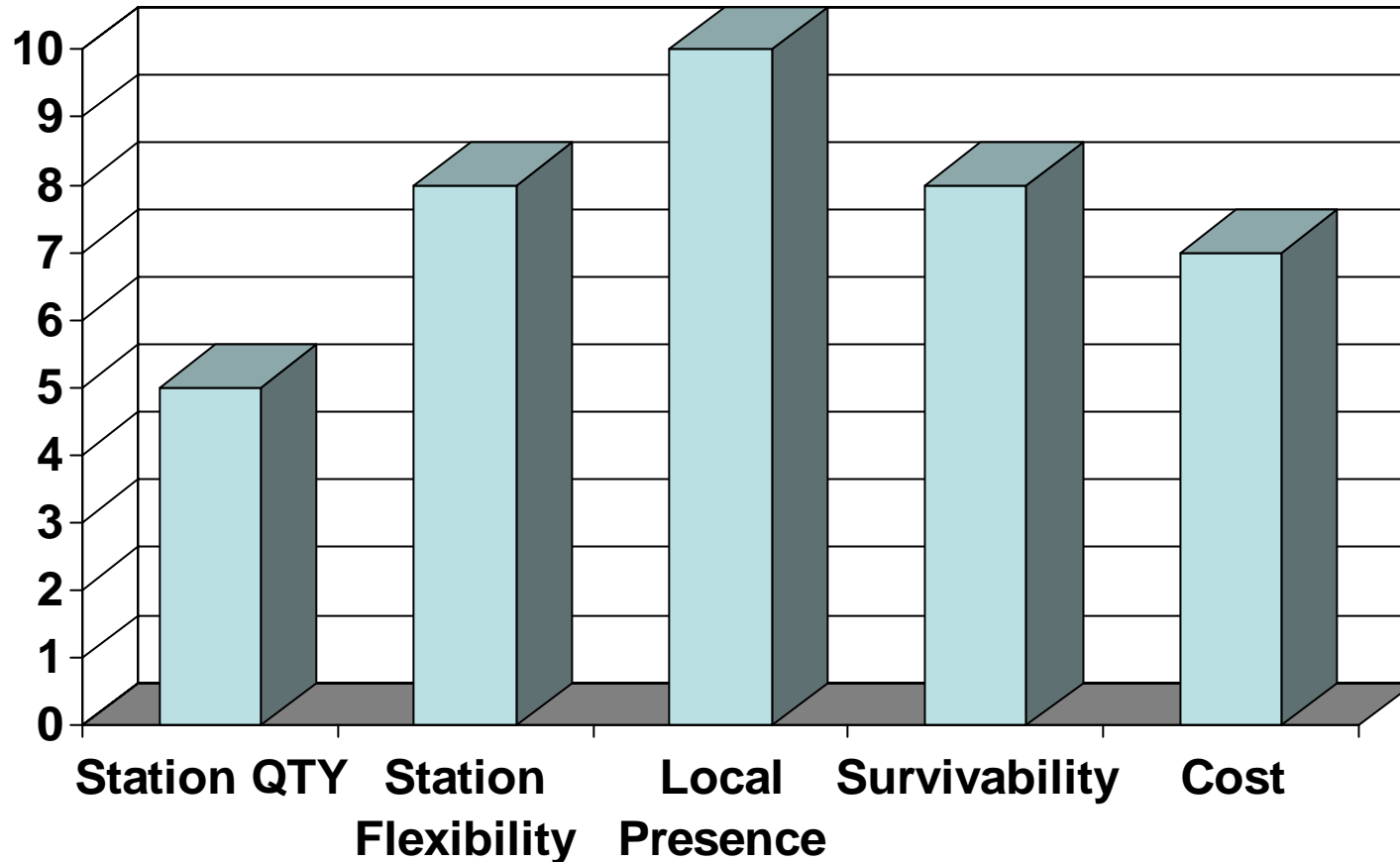


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## Remote Site Options – G350 with LSP



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# Where does it fit?

## Remote Site Options – G350 with LSP



- **Advantages**

- Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- One CM system to upgrade
- VERY flexible trunking options
- Very flexible station options (IP, Analog, Digital)
- Local Survivable Processor is 100% Avaya Call Processing software in Survivable Mode

- **Disadvantages**

- Very limited analog/digital station qty's. Max of 40 stations
- There are a lot of “real life” issues to think about for survivability
- Only supports up to 10 Call Center Agents (limited DSP's).
- Not Stackable
- LSP's can only be the brains for H.248 Gateways

- **Requirements**

- S8300/S8500/S8700 CM2.0 or higher at main site (Enterprise Software recommended)
- IP Enabled (MedPro's, C-LAN's, IP trunk and station RTU, etc.)
- G350 at remote site with Media Modules to support desired endpoints
- LAN/WAN that meets Connectivity, QOS and Bandwidth requirements
- Desired endpoints
- Multi Location Software or ARS Partitioning (limits qty)

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## Remote Site Options – G700 with LSP

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### Remote/Satellite Office

### Main/Regional Office

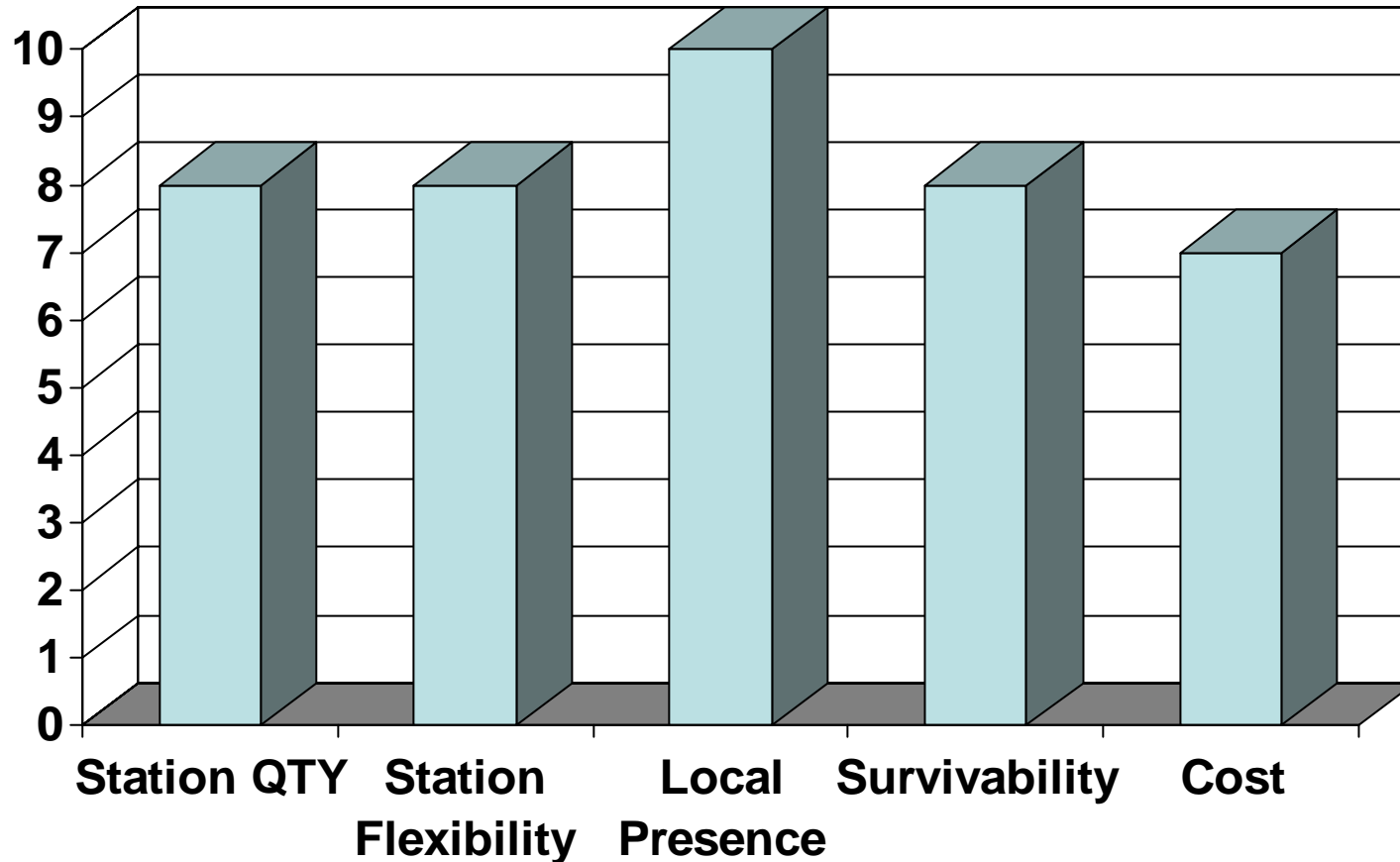


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## Remote Site Options – G700 with LSP



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# Where does it fit?

## Remote Site Options – G700 with LSP

- **Advantages**

- Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- One CM system to upgrade
- VERY flexible trunking options
- Very flexible station options (IP, Analog, Digital)
- Local Survivable Processor is 100% Avaya Call Processing software in Survivable Mode.

- **Disadvantages**

- Limited analog/digital station qty's.
- There are a lot of “real life” issues to think about for survivability
- LSP's can only be the brains for H.248 gateways

- **Requirements**

- S8700 CM1.1 or higher at main site or S8300 CM1.3 or higher at main site
- IP Enabled (MedPro's, C-LAN's, IP trunk and station RTU, etc.)
- G700's at remote site with Media Modules to support desired endpoints
- LAN/WAN that meets Connectivity, QOS and Bandwidth requirements
- Desired endpoints
- Multi Location Software or ARS Partitioning (limits qty)

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## Enterprise Survivable Server

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### Remote/Satellite Office

### Main/Regional Office

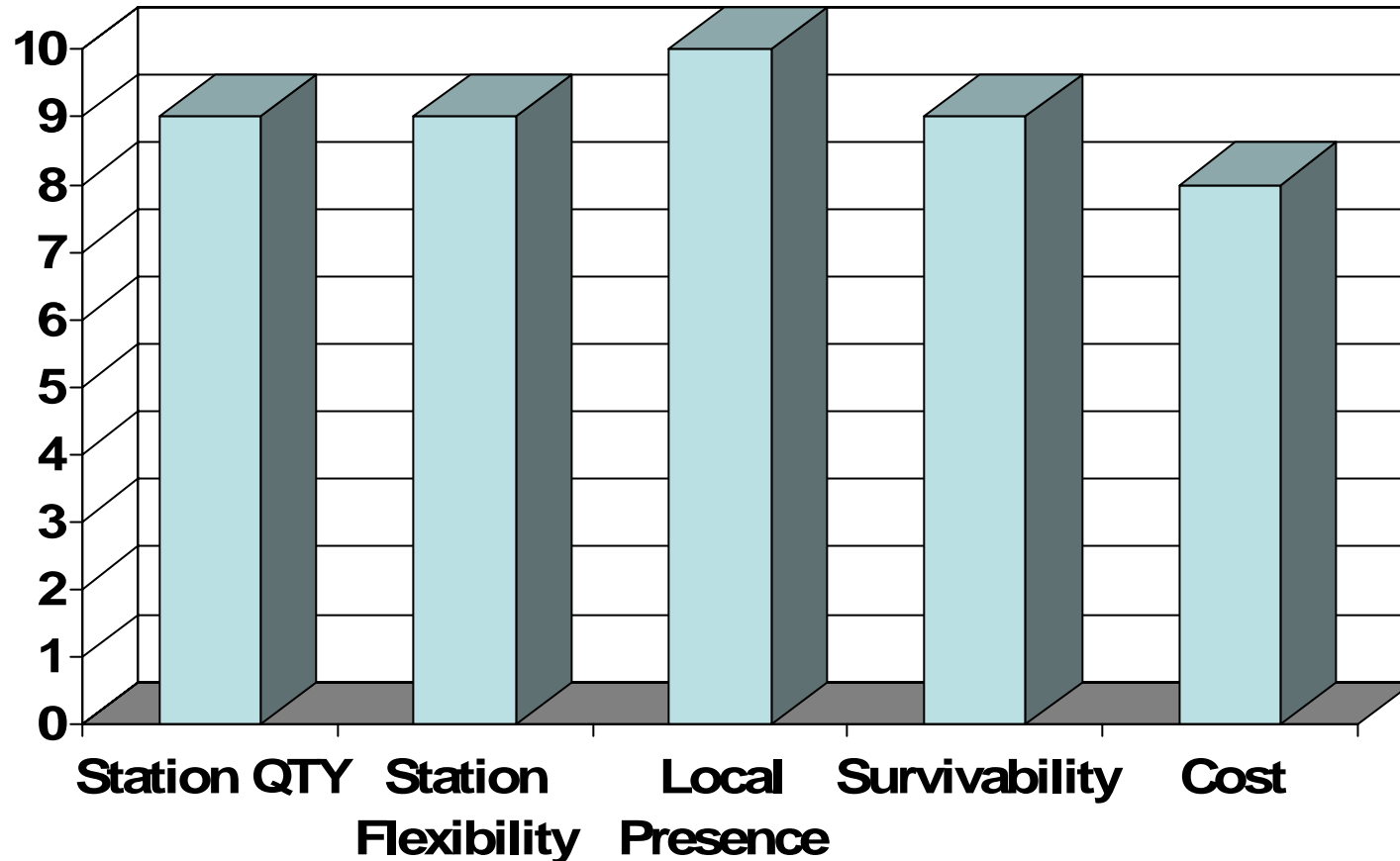


# Communication Manager

## Enterprise Survivable Server



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# Where does it fit?

## Remote Site Options – ESS

- **Advantages**

- Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- One CM system to upgrade
- VERY flexible trunking options
- Very flexible station options (IP, Analog, Digital)
- Local Survivable Processor is 100% Avaya Call Processing software in Survivable Mode.
- ESS can be backup brain for ANY Avaya gateway

- **Disadvantages**

- Limited analog/digital station qty's.
- There are a lot of “real life” issues to think about for survivability

- **Requirements**

- ACM CM3.0 with Enterprise Software
- IP Enabled (MedPro's, C-LAN's, IP trunk and station RTU, etc.)
- LAN/WAN that meets Connectivity, QOS and Bandwidth requirements
- Desired endpoints



# Communication Manager

## Remote Site Options – Separate Systems

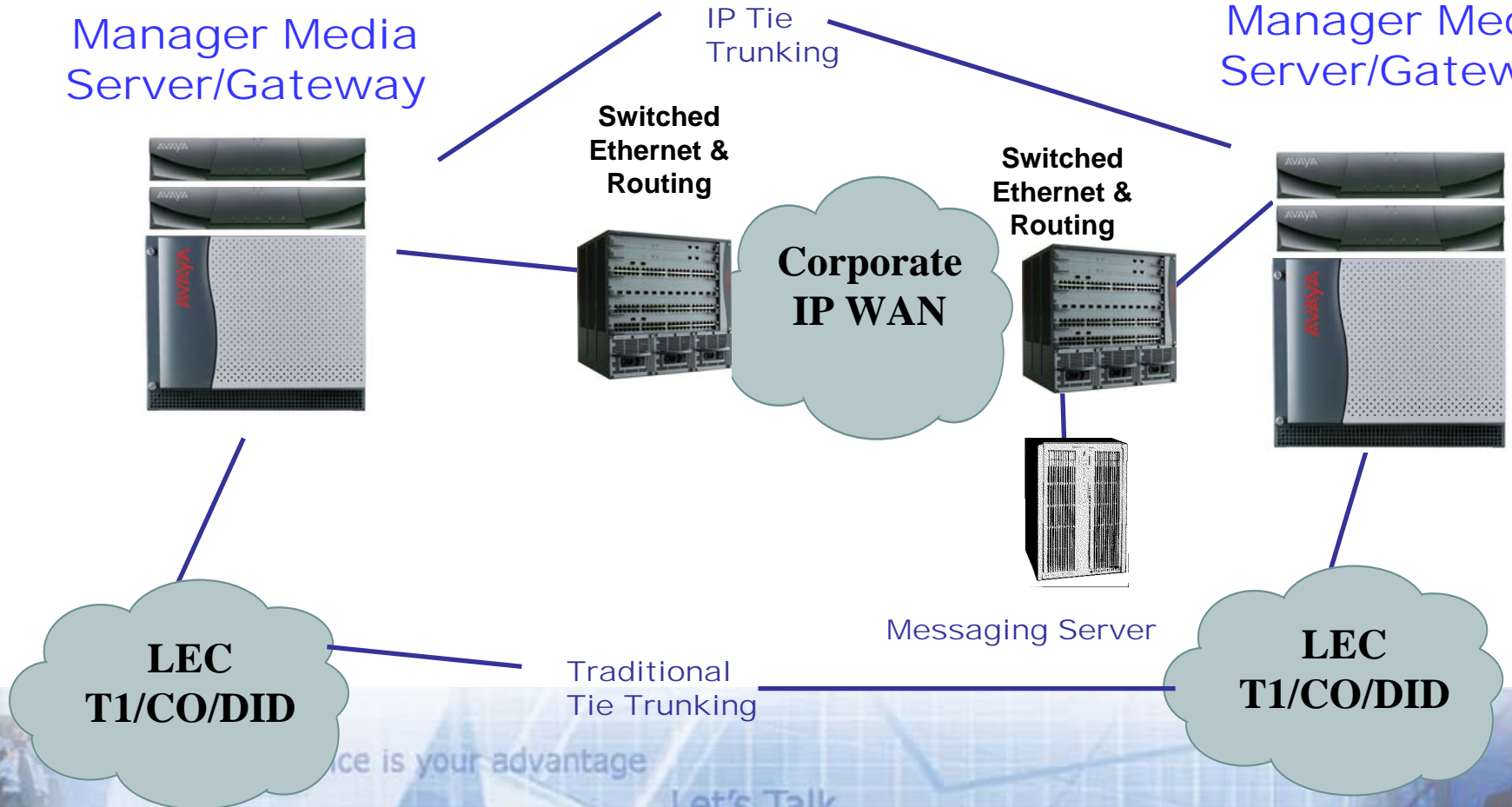
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### Remote/Satellite Office

### Main/Regional Office

Communication  
Manager Media  
Server/Gateway

Communication  
Manager Media  
Server/Gateway



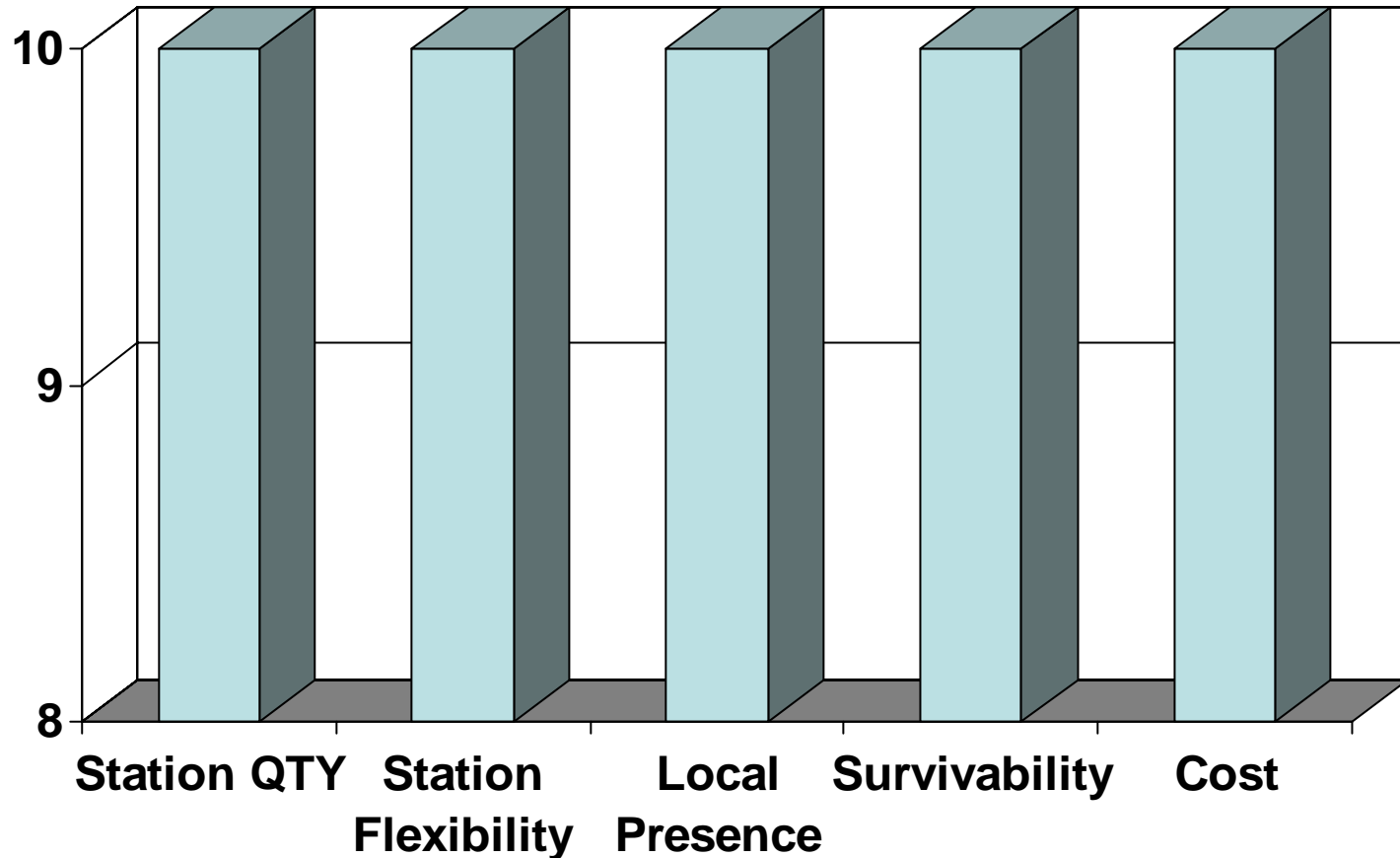


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Remote Site Options - Separate Systems

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# Where does it fit?

## Remote Site Options - Separate Systems



- Advantages

- With DCS/QSIG Shared adjunct access (i.e. Voicemail, Call Accounting, CMS, etc.)
- VERY flexible trunking options
- Very flexible station options (IP, Analog, Digital)
- Local Survivability not an issue since they are separate and independent
- Been around for a long time

- Disadvantages

- Costly
- Multiple systems to upgrade
- Multiple systems to administer

- Requirements

- Definity/CM at both sites
- Appropriate connectivity for system networking
- Desired endpoints
- DCS or QSIG

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# Communication Manager Summary



## Comparison Criteria

- Station Quantity
- Station Flexibility
- Local Presence
- Survivability

## Remote Office Options

- Just IP Phones
- G150 H.323 Gatekeeper
- G250 (with optional LSP)
- G350 (with optional LSP)
- G700 (with optional LSP)
- Enterprise Survivable Server
- Separate Systems Networked Together (DCS/QSIG)

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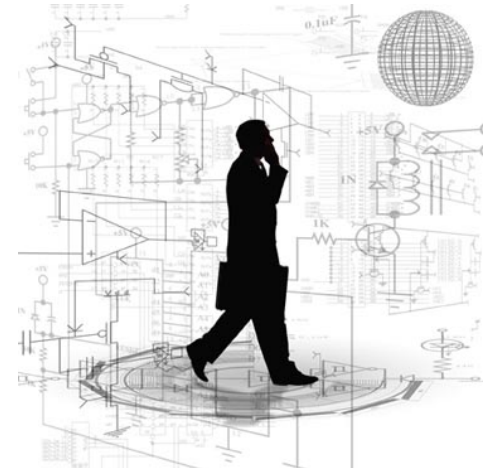
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